

UNMANNED AERIAL VEHICLES

REGULATIONS, CONFERENCES AND
RESEARCH BODIES

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▶ **Mission:**

- ▶ A sounding board for the conception and implementation of the EU drone policy.
- ▶ To advise and assist the Commission with the implementation of actions that can foster and accelerate the integration of drones in the aviation system and the emergence of a suitable operational environment and infrastructure for drones flying at low altitude, including over urban areas.
- ▶ To build upon the operational infrastructure and services to foster the development of a drone services market and of a robust, dynamic and innovation-oriented supporting framework.
- ▶ To draw on best practice and “lessons learned” in other regions and/or in other industrial and service sectors that can be instrumental for the purposes referred to herein.

EU'S EXPERT GROUP ON DRONES

- ▶ Single European Sky ATM Research (SESAR) Joint Undertaking (SJU)
 - ▶ <http://www.sesarju.eu/>
 - ▶ Established in 2007 as a public-private partnership, the SESAR Joint Undertaking (SESAR JU) is responsible for the modernisation of the European air traffic management (ATM) system by coordinating and concentrating all ATM relevant research and innovation efforts in the EU.
- ▶ European Aviation Safety Agency (EASA)
 - ▶ <https://www.easa.europa.eu/easa-and-you/civil-drones-rpas>
 - ▶ In December 2015, a 'Prototype' regulation was drafted. In August 2016 the 'Prototype' regulation was published proposing actual rules providing the necessary clarity, notably on what are the responsibilities of the Member States and what is the flexibility offered to them.
 - ▶ The public consultation period for the NPA finished on the 15 September 2017.
 - ▶ The Opinion is planned to be submitted to the EU commission by the end of 2017.

MEMBERS OF INTEREST

IEEE- INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS TECHNICAL COMMITTEE ON AERIAL ROBOTICS AND UNMANNED AERIAL VEHICLE

<http://ieee-aerialrobotics-uavs.org/>

TOPICS OF INTEREST

- ▶ Airframe design
- ▶ UAS autonomy: perception, planning and control
- ▶ UAS Guidance, Navigation and Control
- ▶ Sense and Avoid
- ▶ Human-computer interfaces
- ▶ Propulsion and Engines
- ▶ Aerial vehicle teams
- ▶ Aerial manipulation
- ▶ UAS integration in non-segregated airspaces
- ▶ Aerial Robotics and UAV application
- ▶ Innovative UAS applications such as STEM education, personal remote sensing, mapping and 3D photogrammetry, UAS for precision agriculture, UAS for digital humanity and cultural heritage preservation, UAS for filmmaking, UAS for journalism, etc.

AUVSI- Association for Unmanned Vehicle Systems International

- ▶ <http://www.auvsi.org/>
- ▶ A non-profit organization, devoted to advancing the unmanned Systems Community

The 2018 International Conference on Unmanned Aircraft Systems:

- ▶ <http://www.uasconferences.com/>